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Fine porous waterproof elastomeric film with gas permeability - obtd. by heat pressing a thermoplastic elastomer compsn. between a heated roll and an elastic roll with nonwoven cloth on one side

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Patent Family:

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JP 3192132	A	19910822	JP 89331838	A	19891221	199140 B
JP 2839923	B2	19981224	JP 89331838	A	19891221	199905

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Abstract (Basic): JP 3192132 A

Prepn. is carried out by supplying a film (consisting of a thermoplastic elastomer compsn.) between a roll heated to at least 100 deg.C and an elastic roll with woven cloth or nonwoven cloth wetted with water or a mixed liq. of water with alcohol put on the side of the heated roll and heat-pressing the film to make the film fine porous state.

The prepn. can be carried out by supplying a laminated film consisting of a thermoplastic elastomer film and woven or nonwoven cloth wetted with water or mixt. of water with alcohol. The thermoplastic elastomer compsn. consists of 30-70wt.% of ethylene-vinyl acetate copolymer and 70-30wt.% of ethylene-propylene-diene copolymer or polyurethane type elastomer. The thermoplastic elastomer compsn. may consist of 40-60 pts. wt. of the above thermoplastic elastomer compsn. and 60-40 pts. wt. of at least a kind of elastomer selected from polyester type elastomer, polyamide type elastomer and polyurethane type elastomer. The thermoplastic elastomer consists of 40-60 pts. wt. of the total of 30-70wt.% of ethylene-vinyl acetate copolymer and 70-30wt.% of polyurethane type elastomer and 60-40 pts. wt. of polyester type elastomer and/or polyamide type elastomer. The thermoplastic elastomer compsn. consists of 100 pts. wt. of the either above described compsn. and 1-10 pts. wt. of low density polyethylene.

USE/ADVANTAGE - The prepn. can mfr. a uniform fine porous film with good waterproof property and gas permeability easily, because the film is hot pressed via wet cloth or nonwoven cloth and the properties of the elastomer material are kept because the film is not developed to excess heating. Further, uniform film can be mfd. easily by making the conditions constant.

Dwg.0/2

Derwent Class: A32

International Patent Class (Main): C08J-009/00

International Patent Class (Additional): B29C-067/20; B29K-105/04;
B29K-105-04; B29L-007/00; B29L-007-00; C08L-023/08; C08L-023/16;
C08L-031/04; C08L-075/04